

IN THE CLAIMS

129. (Currently Amended) A handheld apparatus including:

a hardware interface to be connected to a handheld computer device and to at least one attachable sensor, the at least one attachable sensor to perform data acquisition when attached to the hardware interface and be programmable by the handheld computer device;

a data module to interact with the sensor and with the handheld computer device; and

a display module to display data collection results on a display of the handheld computer device, the display module including a user interface to allow users of the handheld apparatus to interact with the handheld apparatus during the data acquisition.

130. (Canceled)

131. (Canceled)

132. (Canceled)

133. (Previously Presented) The apparatus of claim 129 further comprising a memory module to store data supplied by the at least one sensor.

134. (Previously Presented) The apparatus of claim 129 wherein the data module further configured to calibrate the at least one sensor.

135. (Previously Presented) The apparatus of claim 129 further comprising an alert module to notify a user of the apparatus of an event based on data provided by the at least one sensor.

136. (Previously Presented) The apparatus of claim 129 further comprising a power source.

137. (Previously Presented) The apparatus of claim 129 wherein the at least one sensor is a sensor for assessing chemical composition of a liquid sample.

138. (Previously Presented) The apparatus of claim 129 wherein the at least one sensor is a sensor for monitoring athletic activity.

139. (Previously Presented) The apparatus of claim 129 wherein the at least one sensor is a sensor for detecting acceleration changes-.

140. (Previously Presented) The apparatus of claim 129 wherein the at least one sensor is a sensor for detecting light.

141. (Previously Presented) The apparatus of claim 129 wherein the at least one sensor is a sensor for detecting temperature.

142. (Previously Presented) The apparatus of claim 129 wherein the at least one sensor is an analog sensor.

143.(Previously Presented) The apparatus of claim 129 wherein the at least one sensor is a digital sensor.

144. (Previously Presented) The apparatus of claim 129 wherein the data module includes an analog-to-digital converter.

145. (Previously Presented) The apparatus of claim 129 wherein the data module processes the data prior to display of the data collection results on the display.

146. (Currently Amended) A handheld apparatus comprising:

a handheld computer device;

an attachable sensor to perform data acquisition; ~~and~~

an adjustable module connected to the handheld computer device and to the sensor, the adjustable module processing data received from the sensor and displaying the data on a display of the handheld computer -device, the sensor to perform data acquisition when connected to the adjustable module and be programmable by the handheld computer device; and

a user interface connected to the handheld computer device, the user interface allowing users of the handheld computer device to interact with the handheld computer device during the data acquisition.

147. (Canceled)

148. (Canceled)

149. (Canceled)

150. (Previously Presented) The apparatus of claim 146 wherein the sensor is an analog sensor.

151. (Previously Presented) The apparatus of claim 146 wherein the sensor is a digital sensor.

152. (Previously Presented) The apparatus of claim 146 wherein the adjustable module includes an analog-to-digital converter.

153. (Previously Presented) The apparatus of claim 146 wherein the adjustable module further calibrates the sensor.

154. (Previously Presented) The apparatus of claim 146 wherein the adjustable module further generates graphical representation of the data received from the sensor.

155. (Previously Presented) The apparatus of claim 146 wherein the adjustable module further directs the sensor to change data collection features of the sensor based on at least one user instruction.

156. (Previously Presented) The apparatus of claim 146 wherein the adjustable module further alerts a user of the apparatus of an event based on data received from the sensor.

157. (Previously Presented) The apparatus of claim 146 wherein the sensor is a sensor selected from a group including a temperature sensor, an acceleration sensor, a radiation sensor, a chemical sensor, a biological sensor, a weight sensor, a bar code sensor, an inventory tag sensor, a motion sensor, an infrared sensor, a pH level sensor, a heart monitor sensor.

158. (Currently Amended) A method comprising:

receiving data from an attachable sensor connected to an attachable device, the attachable sensor performing data acquisition when connected to the attachable device, wherein the attachable device is connected to a handheld computer device, and the attachable sensor is programmable by the handheld computer device;

processing the data at the attachable device;

allowing users of the handheld computer device to interact with the handheld computer device during the data acquisition; and

providing results of the processing to the handheld computer device for display.

159.(Previously Presented) The method of claim 158 wherein the processing the data includes generating graphical representation of the data.

160. (Previously Presented) The method of claim 158 wherein the processing the data

includes converting the data into digital form.

161. (Previously Presented) The method of claim 158 wherein the processing the data includes determining whether an event occurs.

162.(Previously Presented) The method of claim 161 further comprising generating an alert signal to display at the handheld computer device if the event occurs.

163.(Previously Presented) The method of claim 158 further comprising calibrating the sensor based on at least one instruction of a user.

164.(Previously Presented) The method of claim 158 further comprising annotating the data based on at least one instruction of a user.

165. (Previously Presented) The method of claims 158 further comprising changing options of the sensor based on at least one instruction of the user.

166. (Previously Presented) The method of claim 165 wherein the options include sampling rates.

167. (Previously Presented) The method of claim 165 wherein the options include a scale of measurement.

168. (Previously Presented) The method of claim 165 wherein the options include measurement units.

169. (Previously Presented) The method of claim 158 further comprising changing display of the data based on user actions.

170. (Previously Presented) The method of claim 169 wherein the user actions are provided via a set of controls of the handheld computer device.

171. (Currently Amended) An apparatus comprising:

means for receiving data from at least one attachable sensor connected to an attachable device, the attachable sensor performing data acquisition when connected to the attachable device, wherein the attachable device is connected to a handheld computer device, and the attachable sensor is programmable by the handheld computer device;

means for processing the data at the attachable device;

means for allowing users of the handheld computer device to interact with the handheld computer device during the data acquisition; and

means for providing results of the processing to the handheld computer device for display.